WHAT IS CLAIMED IS:

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1		1.	A carrier for a semiconductor die package, the carrier comprising:
₂ .	7	(a)	a metal layer; and
South		(b)	a plurality of bumps formed in the metal layer,
Har	ſ	where	in the carrier is for electrically coupling a semiconductor die to a circuit
5	substrate.		
1		2.	The carrier of claim 1 wherein the metal layer comprises copper.
1		3.	The carrier of claim 1 wherein the plurality of bumps are disposed in
2	an array and ar	re stam	ped bumps.
35 to 1			
ĮĮ.		4.	The carrier of claim 1 further comprising:
D		a die a	ttach region, and wherein the plurality of bumps are arranged around the
3	die attach regio	on.	
1		5.	The carrier of claim 1 further comprising a dielectric layer, wherein the
2	metal layer is o	on a die	electric layer.
mag.		_	
11 = 12 = 12 = 12 = 12 = 12 = 12 = 12 =		6.	The carrier of claim 1 wherein the metal layer includes one or more
	sublayers of m	aterial	on a base metal.
1		7.	The carrier of claim wherein the metal layer is discontinuous and
2	includes a plur	ality of	etched conductive lines that lead to the plurality of bumps.
	P		y and the property of the prop
3		8.	The carrier of claim 1 wherein each bump has a conical angle of about
4	40 degrees of r	nore.	
1		9.	The carrier of claim 1 wherein each bump has a conical shape.
1	1	10.	A semiconductor die package comprising:
2/5	-	(a)	a carrier compaising a metal layer, a die attach region, and a plurality
Ch.	$\gamma_{ m of~bumps~form}$	ed in th	ne metal layer; and
4		(b)	a semiconductor die electrically coupled to the die attach region of the
5	carrier.		

1 The die package of claim Wherein the plurality of bumps are 11. 2 stamped bumps and are arranged around the die attach region, and wherein each of the bumps 3 has a height that is greater than or equal to a thickness of the semiconductor die. The die package of claim 10 wherein the carrier comprises copper. 1 12. 1 13. The die package of claim 10 wherein the carrier comprises: 2 a base metal with one or more coatings on the base metal. 1 14. The die package of claim 10 wherein each bump has a conical angle 2 greater than about 40 degrees. 15. The die package of claim 10 wherein the semiconductor die comprises a vertical metal oxide semiconductor field effect transistor (MOSFET) device. 16. The die package of claim 10 wherein the semiconductor die comprises a vertical metal oxide semiconductor field effect transistor (MOSFET) device having a source region, a gate region, and a drain region, wherein the drain region is proximate to the die attach region of the carrier, and the source region and the gate region are distal to the die attach region of the carrier. 1 17. The die package of claim 10 wherein each stamped bump has a conical 2 shape. 1 18. The die package of claim 10 wherein the bumps and the semiconductor 2 die are at opposite sides of the carrier. 1

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die are at the same side of the carrier.

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The die package of claim 10 wherein the bumps and the semiconductor

1	20. A semiconductor die package compris/ng:		
2	(a) a carrier comprising metal layer, a die attach region, and a plurality of		
3	stamped bumps formed in the metal layer around the die artach region;		
4	(b) a semiconductor die comprising a vert cal metal oxide semiconductor field		
5	effect transistor (MOSFET) device having a source region, a gate region, and a drain region,		
6	wherein the drain region is electrically coupled to and proximate to the die attach region of		
7	the carrier, and the source region and the gate region are distal to the die attach region, and		
8	wherein the plurality of stamped bumps in the carrier are arranged around the semiconductor		
9	die; and		
10	(c) a plurality of solder deposits disposed on the semiconductor die.		
1) (C. C. Land State Comments of the Comment of the	21. The semiconductor pair package of claim 20 wherein the each of the		
	bumps has a conical angle greater than about 40 degrees or more.		
	22. The semiconductor die package of claim 20 wherein the carrier		
2	comprises copper.		
14	23. The semiconductor die package of claim 20 the plurality of bumps are		
2: 3:	formed simultaneously in the metal layer.		
	24. A method for forming a carrier for a semiconductor die package, the		
21	method comprising:		
13	(a) providing a ment tayer; and		
4	(b) forming a plurality of bumps in the metal layer, wherein the formed		
χ_5	bumps are capable of being electrically coupled to conductive regions of a circuit substrate.		
1	The state of the s		
1	The method of claim 24 wherein forming the plurality of bumps		
2	comprises stamping.		
1	26. A method for forming a semiconductor die package, the method		
2	comprising:		
3	(a) forming a carrier absording to the method of claim 24; and		
4	(b) attaching a semiconductor die to the metal layer after forming the		
5	plurality of bumps.		

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1	27. The method of claim 26 wherein (c) attaching comprises:
2	attaching the semiconductor die to a die attach region of the carrier, and
3	wherein the plurality of bumps is disposed around the semiconductor die.
1	28. The method of claim 26 wherein forming the plurality of bumps
2	comprises stamping.
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